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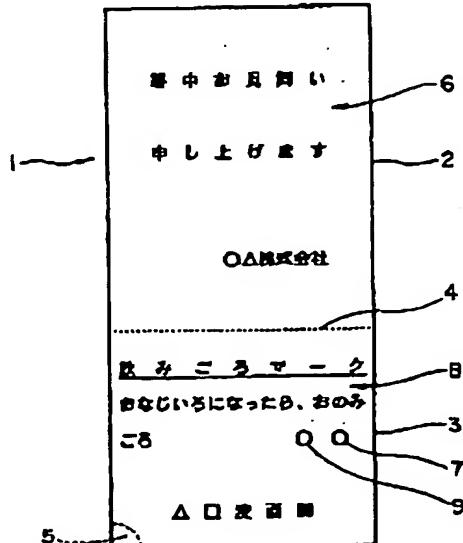
(54)【考案の名称】示温ラベル

(57)【要約】

【目的】サービスラベルとして使用できるとともに、温度指示部を繰り返し使用することができる示温ラベルを提供する。

【構成】示温ラベル1は、任意の文字等が記載できる記事表示部2と、感温剤が塗布されている温度指示部3とからなる。記事表示部2と温度指示部3との境界にはミシン目4が設けられている。示温ラベル1の裏面には温度指示部3の左下隅を除いて、感圧性接着剤が塗布されている。前記感圧性接着剤が塗布されていない温度指示部3の左下隅が、示温ラベル1を剥離する際の剥離開始部5となっている。温度指示部3には、感温剤が塗布された感温剤塗布部7が設けられており、感温剤の温度指示機能に関する説明事項8が記載されている。

Fig. 1



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【実用新案登録請求の範囲】

【請求項 1】任意の文字等を記載できる記事表示部と、所定の温度範囲にて可逆的に変色する感温剤が少なくとも一部に塗布され前記感温剤の温度指示機能に関する説明事項が記載された温度指示部とからなり、前記記事表示部及び温度指示部の裏面に感压性接着剤を塗布してなるラベルであって、前記記事表示部と温度指示部との境界に該温度指示部を切り離し可能なミシン目を設け、さらに、前記温度指示部の周辺部の裏面に前記感压性接着剤を塗布しない部分を設けたことを特徴とする示温ラベル。

【請求項 2】前記温度指示部が前記示温ラベルの周辺か

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ら突出するタブを有し、前記感压性接着剤を塗布しない部分が、該タブの裏面に設けられていることを特徴とする請求項 1 記載の示温ラベル。

【図面の簡単な説明】

【図 1】本考案の第 1 の実施例を示す平面図。

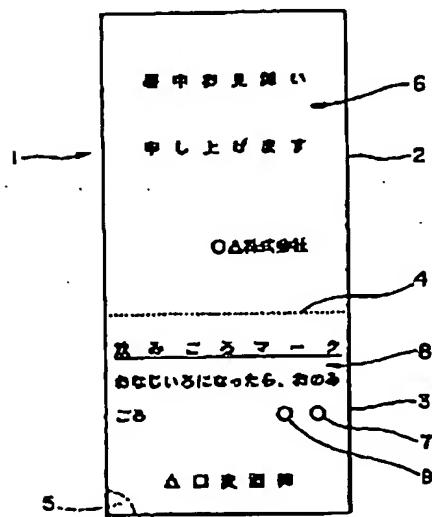
【図 2】本考案の第 2 の実施例を示す平面図。

【符号の説明】

1、11…示温ラベル、2…記事表示部、3…温度指示部、4…ミシン目、5…感压性接着剤を塗布しない部分、7…感温剤塗布部、8…感温剤の温度指示機能に関する説明事項

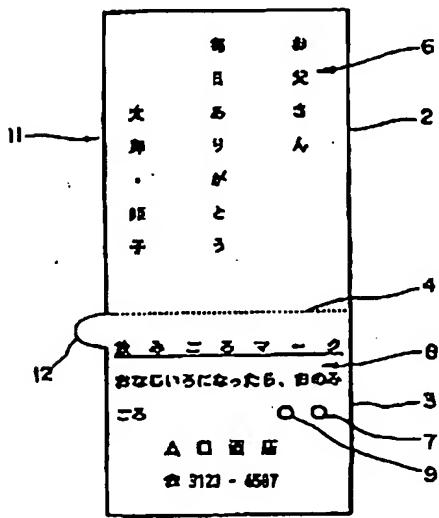
【図 1】

FIG. 1



【図 2】

FIG. 2



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【考案の詳細な説明】**【0001】****【産業上の利用分野】**

本考案は示温ラベルに関するものであり、さらに詳しくは、贈答用などの飲食物の容器に貼付され飲食に好適な温度範囲を示すとともに、贈り主の伝言が記載できる示温ラベルに関するものである。

【0002】**【従来の技術】**

従来、特定の温度範囲で可逆的に変色する感温剤が知られており、このような感温剤を印刷インクに混合するなどして塗布した示温ラベルについても知られている。前記示温ラベルには、飲食物の保存、飲食等に好適な温度を指示するなどの用途がある。

【0003】

例えば、実開昭55-129081号公報には、生ビールのジョッキ、日本酒の盃、ジュースのグラス等の飲用器に貼付して、該飲用器に注がれた生ビール、日本酒、ジュース等の温度を外部から目視で知り得るようにした示温ラベルが開示されている。

【0004】

しかし、前記公報に記載された示温ラベルは、前記飲み物を缶または壜などの容器から飲用器に注いたときに初めてその温度が示されるものであり、前記飲み物が缶または壜などに充填された状態での温度を直接示すものではない。前記缶または壜などに充填された状態の飲み物の温度を知るためには、前記示温ラベルが前記缶または壜などの容器自体に貼付されていれば好都合であるが、前記可逆的感温剤は高価で取扱も煩雑であるので、工場出荷時から前記示温ラベルを飲み物容器に貼付すると製品価格の上昇が避けられない。

【0005】

一方、個人名、挨拶等を記載して飲み物容器に貼付されるサービスラベルが知られている。このようなラベルとして例えば、実開平2-87739号公報には贈答用の飲み物容器に貼付して贈り主の伝言を記載できるようにしたラベルが記

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載されている。

【0006】

前記サービスラベルは飲み物容器に直接貼付されて使用されるものであるが、酒類等の小売店で顧客の求めに応じて使用されるものであり、製品自体の価格には係わりがなく、しかも商品価値を高め販売促進につながるとの利点がある。

【0007】

しかしながら、前記公報記載のサービスラベルは贈り主の伝言が記載されるとの性格上その使用は一度限りであり、単に前記サービスラベルに前記可逆的感温剤を塗布しただけでは、高価な前記可逆的感温剤を効率よく使用できないとの不都合がある。

【0008】

【考案が解決しようとする課題】

かかる不都合を解消して、本考案はサービスラベルとして使用できるとともに、温度指示部を繰り返し使用することができる示温ラベルを提供する。

【0009】

【課題を解決するための手段】

かかる目的を達成するために、本考案の示温ラベルは、任意の文字等を記載できる記事表示部と、所定の温度範囲にて可逆的に変色する感温剤が少なくとも一部に塗布され前記感温剤の温度指示機能に関する説明事項が記載された温度指示部とからなり、前記記事表示部及び温度指示部の裏面に感圧性接着剤を塗布してなるラベルであって、前記記事表示部と温度指示部との境界に該温度指示部を切り離し可能なミシン目を設け、さらに、前記温度指示部の周辺部の裏面に前記感圧性接着剤を塗布しない部分を設けたことを特徴とする。

【0010】

本考案の示温ラベルは、前記温度指示部が前記示温ラベルの周辺から突出するタブを有し、前記感圧性接着剤を塗布しない部分が、該タブの裏面に設けられていてもよい。

【0011】

前記感温剤は、前記示温ラベルが貼付される容器の内容物の飲食に適した温度

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範囲にて可逆的に変色するものを適宜選択することが好ましく、例えば、前記示温ラベルがビール、清涼飲み物水等の容器に貼付されるときには、4~6°Cの温度範囲にて可逆的に変色する感温剤が好ましい。

【0012】

【作用】

かかる手段によれば、前記示温ラベルは、まず、小売店等で贈答用飲み物容器等に直接貼付され、メッセージを消費者に伝える媒体となる。

【0013】

次いで、前記示温ラベルが貼付された飲み物容器等の内容物が消費されると、前記感压性接着剤が塗布されていない部分を摘み上げることにより温度指示部が前記飲み物容器から剥離され、前記ミシン目に沿って記事表示部から切り離される。

【0014】

前記示温ラベルにおいて、記事表示部分は顧客により任意の文字等が記載されるという性格上その使用は一度限りのものが殆どであるが、温度指示部は繰り返し使用が可能であり、前記操作により温度指示部が回収され、再利用が可能になる。

【0015】

また、周辺から突出するタブを有する前記示温ラベルでは、前記タブを引くことにより、前記示温ラベルの一部が前記飲み物容器から剥離されやすくなる。

【0016】

【実施例】

次に、添付の図面を参照しながら本考案の示温ラベルについてさらに詳しく説明する。図1は本考案の第1の実施例を示す拡大平面図、図2は第2の実施例を示す拡大平面図である。

【0017】

図1に示すように、本実施例の示温ラベル1は、任意の文字等が記載できる記事表示部2と、感温剤が塗布されている温度指示部3とからなり、記事表示部2と温度指示部3との境界にはミシン目4が設けられている。示温ラベル1の裏面

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には、温度指示部3の左下隅を除く全面に感圧性接着剤が塗布され、飲み物容器等に貼付できるようになっている。そして、前記感圧性接着剤が塗布されていない温度指示部3の左下隅が、示温ラベル1を剥離する際の剥離開始部5となっている。

【0018】

示温ラベル1は一軸延伸された合成樹脂製フィルムをラミネートされた合成紙により形成されており、前記ミシン目4が延伸方向と平行になるようにされている。

【0019】

記事表示部2には顧客が用途に応じて任意の文字等のメッセージ6を記載することができ、本実施例の示温ラベル1では「暑中お見舞い申し上げます」との語及び贈り主の会社名からなるメッセージ6が横書きで3行に分けて記載されている。

【0020】

メッセージ6は、前記のほか、結婚式の引出物として使用する場合の出席御礼、御中元等の時候の挨拶、父の日、バレンタインデー等のプレゼントとして使用する場合のメッセージ、贈り主等の個人名、広告文などが贈り主により任意に記載される。

【0021】

温度指示部3には、感温剤が塗布された感温剤塗布部7が設けられており、感温剤の温度指示機能に関する説明事項8が記載されている。

【0022】

本実施例の示温ラベル1は、ビール、清涼飲料水等の容器に貼付されるものであり、前記感温剤塗布部7には4～6°Cの温度範囲にて可逆的に変色する感温剤が塗布されている。

【0023】

前記示温ラベル1では、説明事項8として、下線を付した「飲みごろマーク」との語と、下線なしの「おなじいにになつたら、おのみごろ」との語が記載され、さらに、感温剤塗布部7と並んで比色部9が設けられている。比色部9には前

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記感温剂が特定の温度範囲で変色するときの色が印刷されており、消費者は示温ラベル1が貼付された容器を見て、感温剂塗布部7と比色部9との色を比較することにより飲食のために適温か否かを知ることができる。

【0024】

なお、温度指示部3は繰り返し使用される部分であり、前記説明事項8の他、メーカー名、小売店名などが記載されていてもよい。本実施例ではメーカー名が記載されている。

【0025】

示温ラベル1は裏面に塗布された感圧性接着剤により缶または壜などの飲み物容器に貼付され、まず、記事表示部2にメッセージ6を記載する顧客の目的に従って使用される。この最初の使用に当たっては、贈られた側の消費者が前記飲み物容器の温度を確認するたびに温度指示部3とともに記事表示部2を目にするので、贈り主及びそのメッセージが前記贈られた側の消費者に強く印象づけられるとの効果も得られる。次いで、前記容器の内容物が消費されて前記使用が終了すると、記事表示部2については再使用が困難であることが多いが、温度指示部3は再使用が可能であるので、温度指示部3を記事表示部2から切り離して回収する。

【0026】

前記温度指示部3の回収は、まず剥離開始部5を摘んで温度指示部3の一部を飲み物容器から剥離し、次いでミシン目4に沿って記事表示部2から切り離しながら温度指示部3の剥離部分を拡大することにより、容易に行うことができる。温度指示部3の前記回収操作は、前記消費者が行ってもよく、示温ラベル1が貼付された飲み物容器が小売店に回収された時点で小売店が行ってもよい。

【0027】

温度指示部3は、前記回収操作が前記消費者によって行われた場合には家庭内でコップ、グラスなどの飲用器、または、他の飲み物容器の缶または壜などに貼付して、また、小売店によって行われた場合には他の商品の飲み物容器に貼付して、再利用することができる。

【0028】

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図2に示す、本考案の第2実施例の示温ラベル11は、剥離開始部5がない替わりに温度指示部3の左上部に示温ラベル11の周辺部から突出するタブ12を有し、タブ12の裏面を除く示温ラベル11の裏面全面に感圧性接着剤が塗布されていることを除いて、第1実施例の示温ラベル1と同一の構成となっている。

【0029】

本実施例の示温ラベル11の記事表示部2には「お父さん毎日ありがとう」との語及び贈り主の名前からなるメッセージ6が縦書きで3行に分けて記載されており、温度表示部3には示温ラベル1と同一の説明事項8と小売店名とが記載されている。

【0030】

示温ラベル11もまた第1実施例の示温ラベル1と同様に使用することができるが、温度指示部3を回収するときには示温ラベル11の周辺部から突出しているタブ12を引けばよいので、より容易に温度指示部3を回収することができる。

【0031】

示温ラベル1及び11は、温度指示部3の回収及び再利用のために引き裂きにくい材料であることが好ましく、飲み物容器に使用されることから耐水性を有することが好ましく、記事表示部2に印字するためには熱転写印字が可能であることが好ましい。このような条件を満たす材料として、示温ラベル1及び11は、前記実施例において一軸延伸された合成樹脂製フィルムをラミネートされた合成紙により形成されているが、他の材料から形成されていてもよい。

【0032】

前記実施例では感温剤塗布部7に4~6°Cの温度範囲にて可逆的に変色する感温剤が塗布されているが、感温剤は示温ラベルが貼付される容器の内容物の飲食に適した温度に応じて適宜選択されればよく、前記感温剤に限定されるものではない。

【0033】

また、前記実施例では感温剤塗布部7を設けているが、特に感温剤塗布部7を設けずに前記感温剤を印刷インクに混合して説明事項8等を該インクで印字する

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ようにもよい。

【0034】

【考案の効果】

以上のことから明らかなように、本考案の示温ラベルは、飲み物容器に直接貼付して使用されるので、飲み物が缶または壜等の容器に充填されたままの状態で飲用に適した温度を指示することができる。

【0035】

また、本考案の示温ラベルは、小売店等で顧客の求めに応じて飲み物容器等に貼付されるサービスラベルの機能を有するので、製品の価格上昇に係わりなく使用することができる。

【0036】

さらに、本考案の示温ラベルによれば、温度指示部を記事表示部から切り離して回収し該温度支持部を繰り返し使用可能とすることができますので、高価な感温剤を有效地に利用することができる。

I, Nigel David CROSSAN MA, MSc,
translator to RWS Group plc, of Europa House, Marsham Way, Gerrards Cross,
Buckinghamshire, England, hereby declare that I am conversant with the English and
Japanese languages and am a competent translator thereof. I declare further that to the best of
my knowledge and belief the following is a true and correct translation of the accompanying
documents in the Japanese language.

Signed this 21st day of February 2002



N. D. CROSSAN

For and on behalf of RWS Group plc

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(54) Title of the Invention: Temperature-indicating label

(57) [Abstract]

[Object] To provide a temperature-indicating label which can be used as a complementary label, and in which the temperature-indicating part can be used repeatedly.

[Configuration] The temperature-indicating label 1 is composed of a message part 2 in which desired letters or the like can be entered and a temperature-indicating part 3 to which a temperature-sensitive material is applied. Perforations 4 are provided on the border between message part 2 and temperature-indicating part 3. A pressure-sensitive adhesive is applied to the rear surface of the temperature-indicating label 1, with the exception of the bottom left-hand corner of the temperature-indicating part 3. When the temperature-indicating label 1 is peeled off, the lower left-hand corner of the temperature-indicating part 3 to which said pressure-sensitive adhesive has not been applied is the part 5 at which peeling starts. A part with temperature sensitive-agent 7 to which temperature-sensitive agent has been applied is provided on the temperature-indicating part 3 and explanatory items 8 which relate to the temperature-indicating function of the temperature-sensitive agent are entered.

[Scope of the utility model claims]

[Claim 1] Temperature-indicating label comprising a message part on which any desired letters or the like can be entered and a temperature-indicating part on at least a part of which a temperature-sensitive agent which changes temperature in a reversible fashion within the specific temperature range is applied and on which explanatory items which relate to the temperature-indicating function of said temperature-sensitive agent are entered, characterized in that said label is formed by applying a pressure-sensitive adhesive to the rear surface of said message part and temperature-indicating part, perforations are provided at the boundary between said message part and temperature-indicating part and the abovementioned temperature-indicating part can be taken off along said perforations, and parts where said pressure-sensitive adhesive is not applied to the rear surface of the peripheral part of said temperature-indicating part are provided.

[Claim 2] Temperature-indicating label according to Claim 1, characterized in that it has a tab where said temperature-indicating part projects from the periphery of said temperature-indicating label and a part where said pressure-sensitive adhesive is not applied is provided on the rear surface of the abovementioned tab.

[Brief description of the figures]

Figure 1 is a plan view showing a first exemplary embodiment of the present design, and
Figure 2 is a plan view showing a second exemplary embodiment of the present design.

[Key to the figures]

1 and 11 are temperature-indicating labels, 2 is the message part, 3 is the temperature-indicating part, 4 are perforations, 5 is the part where the pressure-sensitive adhesive is not applied, 7 is the part where the temperature-sensitive agent is applied, 8 are

explanatory items relating to the temperature-indicating function of the temperature-sensitive agent.

FIG. 1

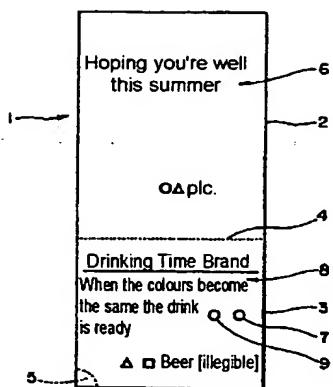
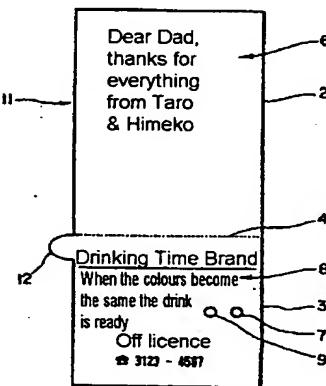


FIG. 2



[Detailed description of the design]

5 [0001]

[Industrial field of use]

The present utility model relates to a temperature-indicating label, and to be more precise to a temperature-indicating label which indicates a suitable 10 temperature range for consumption, which is stuck to a container for food and drink items to be given as presents, it being possible for the giver of a present to write a message on said label.

15 [0002]

[Prior art]

In the prior art, the temperature-sensitive agent which changes colour in a reversible fashion within a particular temperature range has been disclosed, and 20 disclosures have also been made relating to a temperature-indicating label to which a mixture of such a temperature-sensitive agent and printing ink and the like is applied. Said temperature-indicating label is used for such things as indicating the suitable 25 temperature for preserving food and drink items, and for consumption and the like.

[0003]

For example, Japanese laid-open utility model application S55-129081 discloses a temperature-indicating label which, by sticking it to drinking vessels such as jugs for draught beer, cups for sake and glasses for juice, can indicate the temperature of the draught beer, sake, juice or the like which is poured into the abovementioned drinking vessel, so the said temperature can be seen from the outside.

10

[0004]

However, the temperature-indicating label disclosed in said application first indicates the temperature of said drink starting from the time when it has been poured from the vessel such as a can or bottle into a drinking vessel and does not directly indicate the temperature of the state when said drink is in the can or bottle or the like. In order to find out the temperature of the drink in the state in which it is in said can or bottle or the like it is advantageous if said temperature-indicating label is stuck onto the actual vessel such as a can or bottle or the like but said reversible heat-sensitive agent is expensive and difficult to handle so that if said temperature-indicating label is stuck onto the container for the drink from the time when it is despatched from the factory manufacturing costs are inevitably increased.

[0005]

30 Complementary labels which are stuck to containers for drinks and on which there is the name of a person and a greeting have also been disclosed. An example of such a label has been disclosed in Japanese laid-open utility model application H2-87739, which label is stuck to a 35 drinks container to be given as a present and can have a message entered on it by the giver of the present.

[0006]

Said complementary label can be used by sticking it

directly onto a drinks container, and as it can be used in accordance with the wishes of customers of retail outlets selling sake and the like, said label has the advantage that it bears no relation to the price of the 5 actual products but nevertheless increases the value of the goods and promotes sales.

[0007]

However, the complementary label disclosed in said 10 application is limited to being used once by virtue of its property of being a label on which a giver of a present writes a message and as said reversible temperature-sensitive agent is merely applied to said complementary label, there is the disadvantage that 15 said expensive reversible temperature-sensitive agent cannot be used efficiently.

[0008]

[Problem which the design is intended to solve]
A temperature-sensitive label is proposed which overcomes the abovementioned disadvantage, so that the present design can be used as a complementary label and a temperature-indicating part can be used repeatedly.

25 [0009]

[Means of solving the problem]
In order to achieve the respective objective, the temperature-indicating label according to the present design comprises a message part on which any desired 30 letters or the like can be entered and a temperature-indicating part on at least a part of which a temperature-sensitive agent which changes temperature in a reversible fashion within the specific temperature range is applied and on which explanatory items which 35 relate to the temperature-indicating function of said temperature-sensitive agent are entered, and is characterized in that said label is formed by applying a pressure-sensitive adhesive to the rear surface of said message part and temperature-indicating part,

perforations are provided at the boundary between said message part and temperature-indicating part and the abovementioned temperature-indicating part can be taken off along said perforations, and parts where said pressure-sensitive adhesive is not applied to the rear surface of the peripheral part of said temperature-indicating part are provided.

[0010]

The temperature-indicating label according to the present design has a tab where said temperature-indicating part projects from the periphery of said temperature-indicating label and a part where said pressure-sensitive adhesive is not applied can be provided on the rear surface of the abovementioned tab.

[0011]

Said temperature-sensitive agent is advantageously suitably selected from agents which change colour in a reversible fashion within a temperature range which is suitable for the consumption of the contents of the vessels on which said temperature-indicating label is stuck, for example a temperature-sensitive agent which changes colour in a reversible fashion within a temperature range of 4 to 6°C when said temperature-indicating label is stuck to a container for beer, ice-cold soft drinks or the like is advantageous.

[0012]

30 [Action]

According to the respective measures, said temperature-indicating label is firstly stuck directly on a drinks container or the like to be used as a present in a retail outlet, becoming a medium for conveying a message to the consumer.

[0013]

Then, when the contents of the drinks container or the like on which said temperature-indicating label has

been stuck have been consumed, the temperature-indicating part can be peeled off said drinks container by taking hold of the part to which said pressure-sensitive adhesive has not been applied, and said
5 temperature-indicating part can be separated from the message part along said perforations.

[0014]

In said temperature-indicating label, the message part
10 is usually restricted to being used only once by virtue of its property as being something on which any desired letters or the like are entered by the customer, but the temperature-indicating part can be used repeatedly and by virtue of the action described above, the
15 temperature-indicating part can be recycled and re-used.

[0015]

In addition, with said temperature-indicating label
20 which has a tab which projects from the periphery, it is easy to peel off part of said temperature-indicating label from said drinks container by pulling said tab.

[0016]

25 [Exemplary embodiment]
A detailed description will now also be given of the temperature-indicating label according to the present design which reference to the appended figures. Figure 1 is a magnified plan view showing a first exemplary embodiment of the present design, and Figure 2 is an enlarged plan view showing a second exemplary embodiment.

[0017]

35 As shown in Figure 1, the temperature-indicating label 1 according to the present exemplary embodiment comprises a message part 2 on which any desired letters or the like can be entered and a temperature-indicating part 3 to which the temperature-sensitive agent is

applied, and perforations 4 are provided at the boundary between the message part 2 and the temperature-indicating part 3. On the rear surface of the temperature-indicating label 1, a pressure-sensitive adhesive is applied over the entire surface with the exception of the lower left-hand corner of the temperature-indicating part 3 so that said temperature-indicating label 1 can be stuck to drinks containers or the like. The lower left-hand corner of the temperature-indicating part 3 where said pressure-sensitive adhesive is not applied is the part 5 at which peeling starts when the temperature-indicating label 1 is peeled off.

15 [0018]

The temperature-indicating label 1 is formed from a synthetic paper on which a uniaxially drawn synthetic resin film has been laminated, and said perforations 4 are formed in parallel with the drawing direction.

20

[0019]

A message 6 composed of any desired letters or the like can be entered onto the message part 2 in accordance with the customer's uses, a message 6 comprising a greeting "best wishes for the summer" together with the name of the giver's company being entered on three horizontal lines on the temperature-indicating label 1 according to the present exemplary embodiment.

30 [0020]

The message 6 is, apart from the above, a message in the form of greetings accompanying a present given when attending a wedding, salutations at the time of the year for mid-year presents and the like, messages to be used when giving presents for Father's day, Valentine's day and so on, with the names of individuals such as the giver of a present, official announcement etc. being entered by the giver of the present at his discretion.

[0021]

The part with temperature sensitive-agent 7 to which temperature-sensitive agent has been applied is provided on the temperature-indicating part 3 and 5 explanatory items 8 relating to the temperature-indicating function of the temperature-sensitive agent are entered.

[0022]

10 The temperature-indicating label 1 according to the present exemplary embodiment is stuck to containers for beer, ice-cold drinks or the like and the temperature-sensitive agent which changes colour in a reversible fashion within a temperature range of 4 to 6°C is 15 applied to said part with temperature sensitive-agent 7.

[00023]

On said temperature-indicating label 1, the words 20 "Drinking Time Brand" on the lower line and the words "When the colours become the same the drink is ready" on the lower line are given as explanatory items 8, and in addition a comparative colour part 9 is provided and arranged in a row with the part 7 with temperature-sensitive agent. The colour at the time when said temperature sensitive agent changes colour within a particular temperature range is printed on the comparative colour part 9, and by looking at the container on which the temperature-indicating label 1 25 is stuck the consumer can find out whether the temperature is suitable for consumption by comparing the colour of the part 7 with temperature-sensitive agent and that of the comparative colour part 9.

35 [0024]

It is to be noted that temperature-indicating part 3 is a part which can be used repeatedly and, apart from said explanatory items 8, the name of the maker or retailer or the like can be given. In the present

exemplary embodiment the name of the maker is given.

[0025]

The temperature-indicating label 1 is stuck to the
5 drinks container such a can or bottle by means of a
pressure-sensitive adhesive which is applied to the
rear surface, and firstly it is used according to the
objectives of the customer who enters the message 6
into the message part 2. When the design is used for
10 the first time, the consumer who is given the gift will
see both the temperature-indicating part 3 and the
message part 2 every time he checks the temperature of
the drinks container, with the effect that the giver of
the present and his message make a strong impression on
15 said consumer who is given the present. Then, when the
contents of said container are consumed and said use
has finished, there are many difficulties associated
with re-using the message part 2, but as the
temperature-indicating part 3 can be re-used, the
20 temperature-indicating part 3 is recycled by separating
it from the message part 2.

[0026]

Said temperature-indicating part 3 can be easily be
25 recycled by firstly taking hold of the part 5 at which
peeling starts, peeling off a part of the temperature-
indicating part 3 from the drinks container and
separating it from the message part 2 along the
perforations 4, with the peeling-off action becoming
30 easier as the peeling part of the temperature-
indicating part 3 is made larger. Said action for
recycling the temperature-indicating part 3 can be
carried out by said consumer or can be carried out at
the retail outlet when the drinks container on which
35 the temperature-indicating label 1 is stuck is recycled
at the retail outlet.

[0027]

When said recycling action is carried out by said

consumer, the temperature-indicating part 3 can be reused by sticking it to a drinking vessel for use in the home such as a cup or glass or to another drinks container or bottle, and when said recycling action is 5 carried out at a retail outlet the temperature-indicating part 3 can be stuck to another commercial drinks container.

[0028]

10 The temperature-indicating label 11 according to a second exemplary embodiment of the present design which is shown in Figure 2 is configured in the same way as the temperature-indicating label 1 according to the first exemplary embodiment except that it does not have 15 a part 5 at which peeling starts, but instead has a tab 12 which projects from the peripheral part of the temperature-indicating label 11 at the upper left-hand part of the temperature-indicating part 3 and the pressure-sensitive adhesive is applied to the entire 20 rear surface of the temperature-indicating label 11 with the exception of the rear surface of the tab 12.

[0029]

25 A message 6 comprising words such as "Dear Dad, thanks for everything" and the name of the giver of the present is entered on three vertical lines on the message part 2 of the temperature-indicating label 11 according to the present exemplary embodiment, and the same explanatory items 8 and name of the retail outlet 30 as on the temperature-indicating label 1 are entered on the temperature-indicating part 3.

[0030]

35 The temperature-indicating label 11 and the temperature-indicating label 1 according to the first exemplary embodiment can be both be used in the same way but when the temperature-indicating part 3 is recycled the tab 12 which projects from the peripheral part of the temperature-indicating label 11 can be

pulled off so that the temperature-indicating part 3 can be recycled more easily.

[0031]

5 In order to facilitate recycling and reuse of the temperature-indicating part 3, it is desirable to make the temperature-indicating labels 1 and 11 from a agent which is difficult to tear, and to make them waterproof so as to be used on drinks containers, and it is
10 desirable if thermal transfer printing can be used for printing the letters on the message part 2. The temperature-indicating labels 1 and 11 are formed in said exemplary embodiments using, as agents which satisfy such conditions, synthetic paper to which a
15 uniaxially drawn synthetic resin film has been laminated, but they can also be formed from other agents.

[0032]

20 In said exemplary embodiments, a temperature-sensitive agent which changes colour in a reversible fashion within the temperature range of 4 to 6°C is applied to the part 7 with temperature-sensitive agent, but a suitable temperature-sensitive agent can be selected in
25 accordance with the temperature which is appropriate for the consumption of the contents of the container to which the temperature-indicating label is stuck, and it is not limited to said temperature-sensitive agent.

30 [0033]

In addition, in said exemplary embodiments a part 7 with temperature-sensitive agent is provided, but it is also possible not to make particular provision of the part 7 with temperature-sensitive agent but instead to
35 print the letters for the explanatory items 8 and the like using ink in which said temperature-sensitive agent has been mixed with printing ink.

[0034]

[Effects of the design]

As is apparent from the above, the temperature-indicating label according to the present design is used by sticking it directly to a drinks container so
5 that it is possible to indicate a temperature which is suitable for drinking in the state in which the drink is still in the can or the bottle or the like.

[0035]

10 In addition, the temperature-indicating label according to the present design has functions as a complementary label which is stuck to a drinks container or the like in accordance with customer requests in retail outlets and the like so that it can be used without increasing
15 the cost of manufactured goods.

[0036]

Furthermore, the temperature-indicating label according to the present design can provide the possibility of
20 making repeated use of the abovementioned temperature-supporting [sic] part by separating the temperature-indicating part from the message part and recycling the temperature-indicating part, thus permitting efficient use of the expensive temperature-sensitive agent.

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